Appendix B
Field Sampling Forms

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 - IV
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 liters	Flow Controller Model/Type: 24hr
Canister Serial No.: 12019	Flow Controller Serial No.: 12019
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 85
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 29.9
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 81.2
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 1707	Final Indoor [TVOC] (ppb): 2640
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-1 (2014)	Duplicate Sample ID:
Sample Location: 1st Fl, GW(B)	Initial Gauge Pressure (in-Hg)*: 28"
Canister Intake Height: 59"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 12/8/14, 1452	Final FC Pressure (in-Hg): 8"
Stop Date/Time: 12/9/14, 1452	Final ~~Initial~~ Gauge Pressure (in-Hg): 5.5"
Sample Duration: 24 hrs ~~1008~~	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1559e 29" 12/8/14	
0923e 13" 12/9/14	
1201e 11" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 IV
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 liters	Flow Controller Model/Type: 24hr
Canister Serial No.: 3737	Flow Controller Serial No.: 3737
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: PPb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 85
Initial Outdoor Bar. Pres. (in-Hg): 30.00	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 81.2
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 932	Final Indoor [TVOC] (ppb): 1354
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-2 (2014)	Duplicate Sample ID:
Sample Location: 1st Fl, 3NB	Initial Gauge Pressure (in-Hg)*: 28
Canister Intake Height: 62"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14, 1444	Final FC Pressure (in-Hg): 8"
Stop Date/Time: 12/9/14, 1445	Final Gauge Pressure (in-Hg): 5"
Sample Duration: 24 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1558 @ 30" 12/8/14	
0923 @ 13" 12/9/14	
1200 @ 10.5" / 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 34450	Flow Controller Serial No.: 34450
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: PPb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 80
Initial Outdoor Bar. Pres. (in-Hg): 30.00	Final Outdoor Bar. Pres. (in-Hg): 30.03
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 600 ppb	Final Indoor [TVOC] (ppb): ~~600~~ 630
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-3(2014)	Duplicate Sample ID: BSIA-3D(2014)
Sample Location: 1st Fl, 6|)(E)	Initial Gauge Pressure (in-Hg)*: 28.5
Canister Intake Height: 62"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14, 1354	Final FC Pressure (in-Hg): 3.5
Stop Date/Time: 12/9/14, 0920	Initial Gauge Pressure (in-Hg): 1"
Sample Duration: 19.3 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1354 @ 28 12/8/14	
0920 @ 3,5* 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6L	Flow Controller Model/Type: 24 hr
Canister Serial No.: 35255	Flow Controller Serial No.: 35255
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type:
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 80
Initial Outdoor Bar. Pres. (in-Hg): 30.00	Final Outdoor Bar. Pres. (in-Hg): 30.03
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 600	Final Indoor [TVOC] (ppb): ~~600~~ 630
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-3D(2014)	Duplicate Sample ID: BSIA-3
Sample Location: 1st Fl, GW(E)	Initial Gauge Pressure (in-Hg)*: 28
Canister Intake Height: 62"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14, 1355	Final FC Pressure (in-Hg): 16
Stop Date/Time: 12/9/14, 0930	Final ~~Initial~~ Gauge Pressure (in-Hg): 15"
Sample Duration: 19.6 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1351 @ 29" 12/8/14	
0920 @ 16" 12/9/14	
0930 @ 16" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 IV
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 liters	Flow Controller Model/Type: 24 hr
Canister Serial No.: 25248	Flow Controller Serial No.: 25248
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 83
Initial Outdoor Bar. Pres. (in-Hg): 30.00	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82.6
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 641	Final Indoor [TVOC] (ppb): 1394
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-4 (2014)	Duplicate Sample ID:
Sample Location: First floor, 3N(E)	Initial Gauge Pressure (in-Hg)*: 28"
Canister Intake Height: 59"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14, 1520	Final FC Pressure (in-Hg): >11
Stop Date/Time: 12/9/14, 1517	Initial Gauge Pressure (in-Hg): 4"
Sample Duration: 23.95 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1610 @ 30" 12/8/14	
0922 @ 13" 12/9/14	
1156 @ 16", 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 IV
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 liter	Flow Controller Model/Type: 24 hr
Canister Serial No.: 34723	Flow Controller Serial No.: 34723
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 83
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 30.03
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 85
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb):	Final Indoor [TVOC] (ppb):
Sample Record: 6N(D)	
Sample Type (Circle One) ~~Indoor Air~~	Ambient Air
Sample ID: BSIA-5 (2014)	Duplicate Sample ID:
Sample Location: 1st floor, 7N(D)	Initial Gauge Pressure (in-Hg)*: 28"
Canister Intake Height: 18"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14, 1458	Final FC Pressure (in-Hg): 2"
Stop Date/Time: ~~12/8/14~~ 12/8/14 1555	Initial Gauge Pressure (in-Hg): 5"
Sample Duration: 1 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
Moved canister to 6N(D) hallway VOC survey @ that location = 3500 ppb	
1608 @ 14", checked w/ Field Gauge = 12"	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 - VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 L	Flow Controller Model/Type: 24 hr
Canister Serial No.: 940	Flow Controller Serial No.: 940
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 83
Initial Outdoor Bar. Pres. (in-Hg): 30.06	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 1036	Final Indoor [TVOC] (ppb): 1501
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-6 (2014)	Duplicate Sample ID:
Sample Location: First floor, IN(B)	Initial Gauge Pressure (in-Hg)*: 26
Canister Intake Height: 58"	Initial FC Pressure (in-Hg): 27.5
Start Date/Time: 12/8/14, 1433	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 12/9/14, 1329	Final ~~Initial~~ Gauge Pressure (in-Hg): 3"
Sample Duration: 22.9 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1557 @ 26.5", 12/8/14	
0921 @ 9.5", 12/9/14	
1159 @ 7", 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 - VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: Building 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 Liters	Flow Controller Model/Type: 24 hr
Canister Serial No.: 3457 33889	Flow Controller Serial No.: 33889
Date canister departed from lab: 12/11/26/14	TVOC Meter Model/Type: PPb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 85
Initial Outdoor Bar. Pres. (in-Hg): 30.06	Final Outdoor Bar. Pres. (in-Hg): 29.96
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82.1
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 631	Final Indoor [TVOC] (ppb): 1294
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B5IA-7 (2014)	Duplicate Sample ID: —
Sample Location: First floor INE	Initial Gauge Pressure (in-Hg)*: 28"
Canister Intake Height: 61"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 12/8/14	Final FC Pressure (in-Hg): 8"
Stop Date/Time: 12/8/14, 1425	Final Gauge Pressure (in-Hg): 6"
Sample Duration: 12/9/14, 1420 23.9 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1558 @ 29" 12/8/14	
0920 @ 13" 12/9/14	
1158 @ 10", 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** T
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6L	Flow Controller Model/Type: 24hr
Canister Serial No.: 33654	Flow Controller Serial No.: 33654
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: PPB Rae
Sample Conditions:	
Initial Outdoor Temp. (F): 84	Final Outdoor Temp. (F): 82
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 81
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0ppm	Final Indoor [TVOC] (ppb): 124
Sample Record:	
Sample Type (Circle One) Indoor Air	Ambient Air
Sample ID: BSIA-8(2014)	Duplicate Sample ID:
Sample Location: 2nd Fl, 6W(B)	Initial Gauge Pressure (in-Hg)*: 28
Canister Intake Height: 64	Initial FC Pressure (in-Hg): 28.5
Start Date/Time: 12/8/14 / 1132	Final FC Pressure (in-Hg): 6.5
Stop Date/Time: 12/9/14, 1126	Final Initial Gauge Pressure (in-Hg): .5"
Sample Duration: 23.9 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1315@28 12/8/14	
1551@25.5 12/8/14	
0909@9" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** BHS & VI
Location: Building 5	**Sampled By:** NT
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6L.	Flow Controller Model/Type: 24hr
Canister Serial No.: 34490	Flow Controller Serial No.: 34440
Date canister departed from lab: ~~11/26~~ 12/1/14	TVOC Meter Model/Type: PPb Ram
Sample Conditions:	
Initial Outdoor Temp. (F): 82	Final Outdoor Temp. (F): 82
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 81
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0 ppm	Final Indoor [TVOC] (ppb): 139
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-9 (2014)	Duplicate Sample ID:
Sample Location: 2nd Floor, 3UCB)	Initial Gauge Pressure (in-Hg)*: 28
Canister Intake Height: 60 in	Initial FC Pressure (in-Hg): 28
Start Date/Time: 12/8/14 / 1115	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 12/9/14, 1050	~~Initial~~ Final Gauge Pressure (in-Hg): 3"
Sample Duration: 23.6 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1314 @ 27.5 12/8/14	
1550 @ 24.5 12/8/14	
0908 @ 3" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** N
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6l	Flow Controller Model/Type: 24hr
Canister Serial No.: 25261	Flow Controller Serial No.: 25261
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: Ppb Rae
Sample Conditions:	
Initial Outdoor Temp. (F): 84	Final Outdoor Temp. (F): 82
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 81
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0 ppb	Final Indoor [TVOC] (ppb): 124
Sample Record:	
Sample Type (Circle One) Indoor Air	Ambient Air
Sample ID: BSIA-10(2014)	Duplicate Sample ID:
Sample Location: 2nd Fl, 6N(E)	Initial Gauge Pressure (in-Hg)*: 27
Canister Intake Height: 61"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14 / 1150	Final FC Pressure (in-Hg): 9.5"
Stop Date/Time: 12/9/14, 1148	Final Initial Gauge Pressure (in-Hg): 5.5"
Sample Duration: 24 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1316 @ 29.5" 12/8/14	
1552 @ 27" 12/8/14	
0909 @ 11" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS-Humacao	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** AT
Sample Date: 12/8/14	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 L	Flow Controller Model/Type: 24hr
Canister Serial No.: 1651	Flow Controller Serial No.: 1651
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: PPB Rae
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 82
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 81
Initial Indoor Temp. (F): 85°	Final Indoor Temp. (F): 29.94 —
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0 ppb	Final Indoor [TVOC] (ppb): 152 ppb
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BSIA-11(2014)	Duplicate Sample ID:
Sample Location: Col. 3N(E)	Initial Gauge Pressure (in-Hg)*: 27
Canister Intake Height: 62"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 12/8/14: 1046	Final FC Pressure (in-Hg): 8.5
Stop Date/Time: 12/9/14, 1046	Final Gauge Pressure (in-Hg): 6
Sample Duration: 24 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1313 @ 28.5 12/8/14	
1550 @ 26 12/8/14	
0906 @ 10" 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 IV
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/8/14	**Weather Conditions:** fair
Sample Equipment:	
Canister Size: 6 liter	Flow Controller Model/Type: 24hr
Canister Serial No.: 5695	Flow Controller Serial No.: 5695
Date canister departed from lab: 11/26/14	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83	Final Outdoor Temp. (F): 83
Initial Outdoor Bar. Pres. (in-Hg): 30.03	Final Outdoor Bar. Pres. (in-Hg): 29.94
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 82.6
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
~~Initial~~ Outdoor Indoor [TVOC] (ppb): 0ppb	Final Indoor [TVOC] (ppb): 34ppb
Sample Record:	
Sample Type (Circle One) (Indoor Air)	(Ambient Air)
Sample ID: BSIA-AA(2014)	Duplicate Sample ID:
Sample Location: Fenceline	Initial Gauge Pressure (in-Hg)*: 28"
Canister Intake Height: 63"	Initial FC Pressure (in-Hg): 29.5"
Start Date/Time: 12/8/14, 1515	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 12/9/14, 1508	~~Initial~~ Final Gauge Pressure (in-Hg): 3"
Sample Duration: 23.9 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
1550 @ 28", 12/8/14	
0927 @ 11", 12/9/14	
1204 @ 8.5", 12/9/14	

* Initial guage pressure must be between 24 and 31 in-Hg.

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/11/14	**Weather Conditions:** Fair, 84

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: 1L1556
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE Lined	Flow Controller Serial No.: FC00437

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
Rein forced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%): 0%	
Ambient [TVOC] (ppb): 1492 ppb	Initial [TVOC] in Sample Train (ppb): 397 ppm	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 33%	[He] in Sample Train (%): 0	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 500+ ppm

Sample Record

Soil Vapor Sample Interval: 8-14"

Start Date / Time: 12/11/14, 1502	Initial Pressure (in-Hg): 30
Stop Date / Time: 12/11/14, 1513	Final Pressure (in-Hg): 5"
Sample Duration: 6 min	Sample Flow Rate (cc/min):

Sample ID: BSS-1(2014)

Duplicate Sample ID: BSS-10(2014)

Other Pertinent Sample Information:
CH_4 = 0.9% O_2 = 10.9%
CO_2 = 5.3% CH_4 w/o filter = 15.7%

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/11/14	**Weather Conditions:** Fair, 84°

Sample Equipment:

TVOC Meter Model/Type: PID RAE	Canister Size: 1.0
Helium Detector Model/Type: -	Canister Serial No.: 2034
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE-Lined	Flow Controller Serial No.: FC 00732

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%):	
Ambient [TVOC] (ppb):	Initial [TVOC] in Sample Train (ppb):	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm):		

Sample Record

Soil Vapor Sample Interval: 8 - 14"

Start Date / Time: 12/11/14 / 1514	Initial Pressure (in-Hg): 30+
Stop Date / Time: 12/11/14 / 1519	Final Pressure (in-Hg): 5"
Sample Duration: 5 min	Sample Flow Rate (cc/min):

Sample ID: BSS5-1D(2014)

Duplicate Sample ID: BSS5-1D(2014)

Other Pertinent Sample Information:
duplicate of BSS5-1(2014)

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/11/14	**Weather Conditions:** 81°, Fair; 30.10"

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1l
Helium Detector Model/Type:	Canister Serial No.: 11680
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 mfc
Sample Tubing Type/Size: 1/4" PTFE lined	Flow Controller Serial No.: 0000006842

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min calibrated with DeFelsko 510

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%): 0%	
Ambient [TVOC] (ppb): 900 ppb	Initial [TVOC] in Sample Train (ppb): 740 ppb	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 30%	[He] in Sample Train (%): 0%	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 1196 ppb

Sample Record

Soil Vapor Sample Interval: 8 - 14"	
Start Date / Time: 12/11/14; 1030	Initial Pressure (in-Hg): 30+
Stop Date / Time: 12/11/14; 1038	Final Pressure (in-Hg): 5"
Sample Duration: 8 min	Sample Flow Rate (cc/min):
Sample ID: BSS-2(2014)	
Duplicate Sample ID:	

Other Pertinent Sample Information:
$CH_4 = 0.0\%$ $O_2 = 18.7$
$CO_2 = 0.8\%$

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** M
Sample Date: 12/11/14	**Weather Conditions:** Fair, 83°

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: IL1706
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE	Flow Controller Serial No.: FC00809

Slab Description:

Thickness of slab (in): 10"

Slab Description (materials/condition):
Reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%): 0%	
Ambient [TVOC] (ppb): 850 ppb	Initial [TVOC] in Sample Train (ppb): 112 ppm	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 36.5%	[He] in Sample Train (%): 0%	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 35.9 ppm

Sample Record

Soil Vapor Sample Interval: 10 - 16"

Start Date / Time: 12/11/14, 1140	Initial Pressure (in-Hg): 29
Stop Date / Time: 12/11/14, 1147	Final Pressure (in-Hg): 5"
Sample Duration: 7 min	Sample Flow Rate (cc/min):

Sample ID: BESS-3(2014)

Duplicate Sample ID:

Other Pertinent Sample Information:
CH_4 = 0.001% O_2 = 9.7%
CO_2 = 5.5%

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/10/14	**Weather Conditions:** Cloudy

Sample Equipment:

TVOC Meter Model/Type: PPb Rae	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: 1L1681
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE Lined	Flow Controller Serial No.: ~~1L1702~~ FC00469

Slab Description:

Thickness of slab (in): 9 inch

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%): 0ppm	
Ambient [TVOC] (ppb): 934 ppb	Initial [TVOC] in Sample Train (ppb): 873 ppb	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 38%	[He] in Sample Train (%): 0%	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm):		

Sample Record

Soil Vapor Sample Interval: 9-15"	
Start Date / Time: 12/10/14, 1406	Initial Pressure (in-Hg): 30 +
Stop Date / Time: 12/10/14, 1412	Final Pressure (in-Hg): 5"
Sample Duration: 6 min	Sample Flow Rate (cc/min):
Sample ID: BSS-4(2014)	
Duplicate Sample ID:	

Other Pertinent Sample Information:
CO_2: 2.7% CH_4: 0.0
O_2: 16.6%

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** MT
Sample Date: 12/11/14	**Weather Conditions:** Fair, 83

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1L
Helium Detector Model/Type: ~~SKC~~	Canister Serial No.: 1L1702
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE lined	Flow Controller Serial No.: 0000006572

Slab Description:

Thickness of slab (in): ≈10"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0%	Initial [~~He~~/CH4] in Sample Train (%): 1.2%	
Ambient [TVOC] (ppb): 900 ppb	Initial [TVOC] in Sample Train (ppb): 342ppm	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 45%	[He] in Sample Train (%): 3.1%	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm): 141 ppm		

Sample Record

Soil Vapor Sample Interval: 10 - 16"	
Start Date / Time: 12/11/14, ~~1253~~ 1353	Initial Pressure (in-Hg): 30
Stop Date / Time: 12/11/14 1359	Final Pressure (in-Hg): 5"
Sample Duration: 5 / 6 min	Sample Flow Rate (cc/min):
Sample ID: ~~BSSS-7(2014)~~ BSSS-5(2014)	
Duplicate Sample ID:	

Other Pertinent Sample Information:
CH_4 = 66.0% O_2 = 8.0%
CO_2 = 10.2%

Comments / Observations:
CH_4 = 19.6% w/ Carbon Filter

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5 VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/10/14	**Weather Conditions:** 84°, Partly Cloudy

Sample Equipment:

TVOC Meter Model/Type: PPB Rae	Canister Size: 1 L
Helium Detector Model/Type:	Canister Serial No.: IL1707
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: ¼" PTFE lined	Flow Controller Serial No.: ~~IL1680~~ FC00327

Slab Description:

Thickness of slab (in): 10 inches

Slab Description (materials/condition):
Rein forcet concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 145 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%): -	
Ambient [TVOC] (ppb): 580 ppb	Initial [TVOC] in Sample Train (ppb): 750 ppb	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 30.6%	[He] in Sample Train (%): 350 ppm	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 1400 ppb

Sample Record

Soil Vapor Sample Interval: 10-16'	
Start Date / Time: 12/10/14, 1523	Initial Pressure (in-Hg): 30+
Stop Date / Time: 12/10/14, 1531	Final Pressure (in-Hg): 5"
Sample Duration: 8 min	Sample Flow Rate (cc/min):
Sample ID: BSS-6 (2014)	
Duplicate Sample ID:	

Other Pertinent Sample Information:
$CO_2 = 0.1\%$ $CH_4 = 0.0\%$
$O_2 = 19.5\%$

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 5, VI
Location: Building 5	**Sampled By:** Terry Taylor
Sample Date: 12/10/14	**Weather Conditions:** 82°, Cloudy, 30.05"

Sample Equipment:

TVOC Meter Model/Type: PPB Rae	Canister Size: 1 L
Helium Detector Model/Type:	Canister Serial No.: 1L1685
Sample Pump Model/Type: SKC Airchek	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: ¼" PTFE lined	Flow Controller Serial No.: ~~1L1707~~ FC00684

Slab Description:

Thickness of slab (in): ≈ 8"

Slab Description (materials/condition): reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 146 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%): 0	
Ambient [TVOC] (ppb): 820	Initial [TVOC] in Sample Train (ppb): 2255	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 38.5%	[He] in Sample Train (%): 0%	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm):		

Sample Record

Soil Vapor Sample Interval: ~~5 min~~ 8-14"	
Start Date / Time: 12/10/14, 1156	Initial Pressure (in-Hg): 30
Stop Date / Time: 12/10/14, 1202	Final Pressure (in-Hg): 5.5
Sample Duration: 6 min	Sample Flow Rate (cc/min):
Sample ID: BSS5-7(2014)	
Duplicate Sample ID:	

Other Pertinent Sample Information:
Ambient CH_4 = 0.0%
Subslab measurements: CH_4 = 0.0%, CO_2 = 4.5%, O_2 = 14.0%

Comments / Observations:

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6 VI
Location: Humacao, PR	**Sampled By:** N
Sample Date: 3/1/15	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 94305	Flow Controller Serial No.: 94305
Date canister departed from lab: 2/26/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 79°
Initial Outdoor Bar. Pres. (in-Hg): 30.19	Final Outdoor Bar. Pres. (in-Hg): 30.05
Initial Indoor Temp. (F): 80	Final Indoor Temp. (F): 77°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 1050 ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B6-1IA	Duplicate Sample ID:
Sample Location: Bldg 6, Rm 127	Initial Gauge Pressure (in-Hg)*: 30+
Canister Intake Height: 58"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 3/1/15 : 1205	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 3/2/15 : 1205	Final Gauge Pressure (in-Hg): 5"
Sample Duration: 24 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb): 420
Comments / Observations:	
slight IPA odor	
2/2/15 @ 0925 : 8"	
3/2/15 @ 1057 : 1216 ppb	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: Bristol-Myers Squibb	Project Name: Building 6 VI
Location: Building 6	Sampled By: David Lindstrand
Sample Date: June 6, 2015	Weather Conditions: Fair
Sample Equipment:	
Canister Size: 6-Liter	Flow Controller Model/Type: 24-Hrs
Canister Serial No.: 33902	Flow Controller Serial No.: 40439
Date canister departed from lab: 5/15/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83.2	Final Outdoor Temp. (F): 83.5
Initial Outdoor Bar. Pres. (In-Hg): 29.91	Final Outdoor Bar. Pres. (In-Hg): 29.98
Initial Indoor Temp. (F): 83	Final Indoor Temp. (F): 78
Initial Indoor Bar. Pres. (In-Hg):	Final Indoor Bar. Pres. (In-Hg):
Initial Indoor [TVOC] (ppb): 0	Final Indoor [TVOC] (ppb): 3
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BG-1IA-2	Duplicate Sample ID:
Sample Location: Bldg 6, Rm 127 (W)	Initial Gauge Pressure (In-Hg)*: <-30
Canister Intake Height: 54"	Initial FC Pressure (In-Hg): <-30
Start Date/Time: 6/6/15: 18:30	Final FC Pressure (In-Hg): <-5.5
Stop Date/Time: 6/7/15: 18:04	Final Gauge Pressure (In-Hg): -5.5
Sample Duration: 23.57 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb): 0	Final [TVOC] in Sample Train (ppb): 3
Comments / Observations:	
6/7/15 at 13:19 FC pressure -10.5 in Hg	
6/7/15 at 17:26 FC pressure -6.5 in Hg	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6-VI
Location: Humacao, PR	**Sampled By:** A
Sample Date: 3/1/15	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 34011	Flow Controller Serial No.: 34011
Date canister departed from lab: 2/26/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 79°
Initial Outdoor Bar. Pres. (in-Hg): 30.19	Final Outdoor Bar. Pres. (in-Hg): 30.05
Initial Indoor Temp. (F): 80°	Final Indoor Temp. (F): 77°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 200 ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B6-2IA	Duplicate Sample ID: B6-2IADup
Sample Location: B6 Rm 127	Initial Gauge Pressure (in-Hg)*: 30+
Canister Intake Height: 58"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 3/1/15: 1208	Final FC Pressure (in-Hg): 5.5"
Stop Date/Time: 3/2/15: 1208	Final Gauge Pressure (in-Hg): 6"
Sample Duration: 24 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb): 544
Comments / Observations:	
3/2/15 @ 0927: 9"	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6 VI
Location: Humacao, PR	**Sampled By:** N
Sample Date: 3/1/15	**Weather Conditions:** Fair
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 35132	Flow Controller Serial No.: 35132
Date canister departed from lab: 2/26/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82	Final Outdoor Temp. (F): 79°
Initial Outdoor Bar. Pres. (in-Hg): 30.19	Final Outdoor Bar. Pres. (in-Hg): 30.05
Initial Indoor Temp. (F): 80	Final Indoor Temp. (F): 77°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 200 ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B6-2IADup	Duplicate Sample ID: B6-2IA
Sample Location: B6 Rm 127	Initial Gauge Pressure (in-Hg)*: 30+
Canister Intake Height: 58"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 3/1/15:1208	Final FC Pressure (in-Hg): 6"
Stop Date/Time: 3/2/15: 1208	Final Gauge Pressure (in-Hg): 6"
Sample Duration: 24 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb): 544
Comments / Observations:	
03/2/15 @ 0927: 9"	
3/2/15 @ 1056 850 ppb	
duplicate of B6-2IA	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: Bristol-Myers Squibb	Project Name: Building 6 VI
Location: Building 6	Sampled By: David Lindstrand
Sample Date: June 6, 2015	Weather Conditions: Fair
Sample Equipment:	
Canister Size: 6-Liter	Flow Controller Model/Type: 24-Hrs
Canister Serial No.: 6L0054	Flow Controller Serial No.: 40019
Date canister departed from lab: 5/15/15	TVOC Meter Model/Type: ppbRAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83.2	Final Outdoor Temp. (F): 83.5
Initial Outdoor Bar. Pres. (In-Hg): 29.91	Final Outdoor Bar. Pres. (In-Hg): 29.98
Initial Indoor Temp. (F): 83	Final Indoor Temp. (F): 78
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (In-Hg):
Initial Indoor [TVOC] (ppb): 0	Final Indoor [TVOC] (ppb): 3
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BG-2IA-2	Duplicate Sample ID:
Sample Location: Building 6, Rm 127 (E)	Initial Gauge Pressure (In-Hg)*: -30"
Canister Intake Height: 48"	Initial FC Pressure (In-Hg): -30
Start Date/Time: 6/6/15: 18:24	Final FC Pressure (In-Hg): -7.0
Stop Date/Time: 6/7/15 17:41	Final Gauge Pressure (In-Hg): -6.5
Sample Duration: 23.72 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] In Sample Train (ppb): 0	Final [TVOC] In Sample Train (ppb): 3
Comments / Observations:	
6/7/15 at 13:23 FC Pressure -11.5 in Hg	
6/7/15 at 17:25 FC Pressure -7.5 inHg	

* Initial guage pressure must be between 24 and 31 In-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: Bristol-Myers Squibb	Project Name: Building 6 VI
Location: Building 6	Sampled By: David Lindstrand
Sample Date: June 6, 2015	Weather Conditions: Fair
Sample Equipment:	
Canister Size: 6-Liter	Flow Controller Model/Type: 24-Hrs
Canister Serial No.: 23925	Flow Controller Serial No.: 40106
Date canister departed from lab:	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 83.2	Final Outdoor Temp. (F): 83.5
Initial Outdoor Bar. Pres. (In-Hg): 29.91	Final Outdoor Bar. Pres. (In-Hg): 29.98
Initial Indoor Temp. (F): 85	Final Indoor Temp. (F): 78
Initial Indoor Bar. Pres. (In-Hg):	Final Indoor Bar. Pres. (In-Hg):
Initial Indoor [TVOC] (ppb): 0	Final Indoor [TVOC] (ppb): 3
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BG-2IAD-2	Duplicate Sample ID:
Sample Location: Bldg 6, Rm 127 (CE)	Initial Gauge Pressure (In-Hg)*: -30
Canister Intake Height: 48"	Initial FC Pressure (In-Hg): -30
Start Date/Time: 6/6/15 : 18:25	Final FC Pressure (In-Hg): -5.0
Stop Date/Time: 6/7/15 : 17:40	Final Gauge Pressure (In-Hg): -5.0
Sample Duration: 23.25 hrs.	Sample Flow Rate (cc/min):
Initial [TVOC] In Sample Train (ppb): 0	Final [TVOC] In Sample Train (ppb): 3
Comments / Observations:	
6/7/15 at 13:26 FC Pressure ~ 9.0 In Hg	
6/7/15 at 17:25 FC Pressure -5.2 In Hg	

* Initial guage pressure must be between 24 and 31 In-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** TT
Sample Date: 2/2-3/15	**Weather Conditions:** Partly Cloudy
Sample Equipment: 6L	
Canister Size: 6L	Flow Controller Model/Type: 24 hr.
Canister Serial No.: 35174	Flow Controller Serial No.: 35174
Date canister departed from lab: 1/30/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 81°
Initial Outdoor Bar. Pres. (in-Hg): 30.11	Final Outdoor Bar. Pres. (in-Hg): 30.17
Initial Indoor Temp. (F): 26°C / 79°	Final Indoor Temp. (F): 79°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 78 ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B6-3IA	Duplicate Sample ID: B6-3IAD
Sample Location: Bldg 6 Rm 188A	Initial Gauge Pressure (in-Hg)*: 30"
Canister Intake Height: 35"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 2/2/15, 1626	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 2/3/15, 1600	Final Gauge Pressure (in-Hg): 5"
Sample Duration: 23.6 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
10" @ 1027 on 2/3/15	
7" @ 1347 on 2/3/15	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** NT, NR
Sample Date: 2/2-3/15	**Weather Conditions:** Partly Cloudy
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 33658	Flow Controller Serial No.: 33658
Date canister departed from lab: 1/30/15	TVOC Meter Model/Type: PpbRAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82	Final Outdoor Temp. (F): 81°
Initial Outdoor Bar. Pres. (in-Hg): 30.11	Final Outdoor Bar. Pres. (in-Hg): 30.17
Initial Indoor Temp. (F): 26°C	Final Indoor Temp. (F): 79°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 78ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: B6-3IAD	Duplicate Sample ID: B6-3IA
Sample Location: Bldg 6 Rm 188A	Initial Gauge Pressure (in-Hg)*: 30+
Canister Intake Height: 35'	Initial FC Pressure (in-Hg): 30'
Start Date/Time: 2/2/15, 1626	Final FC Pressure (in-Hg): 8.5'
Stop Date/Time: 2/3/15, 1600	Final Gauge Pressure (in-Hg): 8.5'
Sample Duration: 24hr 23.6 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
13" @ 1027 on 2/3/15	
10' @ 1347 on 2/3/15	
duplicate of B6-3IA	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** N
Sample Date: 2/2-3/15	**Weather Conditions:** Partly Cloudy
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: ~~3735~~ 24hr
Canister Serial No.: 3735	Flow Controller Serial No.: 3735
Date canister departed from lab: 1/30/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 81°
Initial Outdoor Bar. Pres. (in-Hg): 30.11	Final Outdoor Bar. Pres. (in-Hg): 30.17
Initial Indoor Temp. (F): 23°/73°	Final Indoor Temp. (F): 73°
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0ppb	Final Indoor [TVOC] (ppb): 0 ppb
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: ~~B6-3IA~~ B6-41A	Duplicate Sample ID: ~~B6-3IAD~~ N
Sample Location: ~~Bldg 6 Rm. 186A~~ Water Purification Area	Initial Gauge Pressure (in-Hg)*: ~~30+~~ 30+
Canister Intake Height: 60"	Initial FC Pressure (in-Hg): 30"
Start Date/Time: 2/2/15, 1541	Final FC Pressure (in-Hg): 5"
Stop Date/Time: 2/3/15, 1341	Final Gauge Pressure (in-Hg): 6.5"
Sample Duration: ~~24 hr~~ 22 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
28" @ 1713 on 2/2/15	@ on 2/3/15
7.5" @ 1022 on 2/3/15	
6" @ 1242 on 2/3/15	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** N
Sample Date: 2/2-3/15	**Weather Conditions:** Partly Cloudy
Sample Equipment:	
Canister Size: 6l	Flow Controller Model/Type: 24hr
Canister Serial No.: 34222	Flow Controller Serial No.: 34222
Date canister departed from lab: 1/30/15	TVOC Meter Model/Type: ppbRAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 81
Initial Outdoor Bar. Pres. (in-Hg): 30.11	Final Outdoor Bar. Pres. (in-Hg): 30.12
Initial Indoor Temp. (F): 25°C / 77°	Final Indoor Temp. (F): 77°
Initial Indoor Bar. Pres. (in-Hg): 30.11	Final Indoor Bar. Pres. (in-Hg):
Initial Indoor [TVOC] (ppb): 0ppb	Final Indoor [TVOC] (ppb): 0ppb
Sample Record:	
Sample Type (Circle One) (Indoor Air)	Ambient Air
Sample ID: BG-5IA	Duplicate Sample ID: ———
Sample Location: Water Purification Area	Initial Gauge Pressure (in-Hg)*:
Canister Intake Height: 50"	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 2/2/15 / 1546	Final FC Pressure (in-Hg): 30+
Stop Date/Time: 2/3/15 / 1546	Final Gauge Pressure (in-Hg): 7.5"
Sample Duration: 24hr	Sample Flow Rate (cc/min): 8"
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
29 @ 1712 on 2/12/15	8.5" @ 1456 on 2/3/15
13.5 @ 1020 on 2/3/15	7.5" @ 1546 on 2/3/15
10.5 @ 1241 on 2/3/15	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Building 6 VI
Location: Bldg 6 Expansion	**Sampled By:** TT, NR
Sample Date: 2/2-3/2015	**Weather Conditions:** Partly Cloudy
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 34361	Flow Controller Serial No.: 34361
Date canister departed from lab: 1/30/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 81°
Initial Outdoor Bar. Pres. (in-Hg): 30.11	Final Outdoor Bar. Pres. (in-Hg): 30.17
Initial Indoor Temp. (F): —	Final Indoor Temp. (F): —
Initial Indoor Bar. Pres. (in-Hg): —	Final Indoor Bar. Pres. (in-Hg): —
Initial Indoor [TVOC] (ppb): 0 ppb	Final Indoor [TVOC] (ppb):
Sample Record:	
Sample Type (Circle One) Indoor Air	(Ambient Air)
Sample ID: B6AA-1	Duplicate Sample ID: —
Sample Location: Bldg 6 Expansion	Initial Gauge Pressure (in-Hg)*: 30"
Canister Intake Height: 74"	Initial FC Pressure (in-Hg): 30+"
Start Date/Time: 2/2/15, 1535	Final FC Pressure (in-Hg): 5" 5"
Stop Date/Time: ~~2/3/15, 134~~ 2/3/15 1535	Final Gauge Pressure (in-Hg): ~~5~~ 6"
Sample Duration: 24 hr	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
Placed on top of Bldg 6 Expansion Slab	
29.5" @ 1710 on 2/2/15	7" @ 1352 on 2/3/15
12" @ 1013 on 2/3/15	5" @ 1535 on 2/3/15
8" @ 1239 on 2/3/15	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Building 6 VI
Location: Humacao, PR	**Sampled By:** NT
Sample Date: 3/1/2015	**Weather Conditions:** Fair, 82°
Sample Equipment:	
Canister Size: 6 l	Flow Controller Model/Type: 24 hr
Canister Serial No.: 34188	Flow Controller Serial No.: 34188
Date canister departed from lab: 2/26/15	TVOC Meter Model/Type: ppb RAE
Sample Conditions:	
Initial Outdoor Temp. (F): 82°	Final Outdoor Temp. (F): 75°
Initial Outdoor Bar. Pres. (in-Hg): 30.19	Final Outdoor Bar. Pres. (in-Hg): 30.11
Initial Indoor Temp. (F): 80	Final Indoor Temp. (F):
Initial Indoor Bar. Pres. (in-Hg):	Final Indoor Bar. Pres. (in-Hg):
Initial ~~Indoor~~ Outdoor [TVOC] (ppb): 0 ppm	Final Indoor [TVOC] (ppb): 0 ppm
Sample Record:	
Sample Type (Circle One) Indoor Air	(Ambient Air)
Sample ID: B6-AA-2	Duplicate Sample ID:
Sample Location: Bldg 6 Exp.	Initial Gauge Pressure (in-Hg)*: 30"
Canister Intake Height:	Initial FC Pressure (in-Hg): 30+
Start Date/Time: 3/1/15: 1153	Final FC Pressure (in-Hg): 0"
Stop Date/Time: 3/2/15: 1150	Final Gauge Pressure (in-Hg):
Sample Duration: unknown	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb):	Final [TVOC] in Sample Train (ppb):
Comments / Observations:	
3/2/15 @ 0938: FC pressure @ 0"	

* Initial guage pressure must be between 24 and 31 in-Hg.

TO-15 INDOOR/AMBIENT AIR SAMPLING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: Bristol-Myers Squibb	Project Name: Building 6 VI
Location: Building 6	Sampled By: David Lindstrand
Sample Date: June 6, 2015	Weather Conditions: Fair

Sample Equipment:

Canister Size: 6-Liter	Flow Controller Model/Type: 24-Hrs
Canister Serial No.: 22509	Flow Controller Serial No.: 40332
Date canister departed from lab: 5/15/15	TVOC Meter Model/Type: ppb RAE

Sample Conditions: DL

Initial Outdoor Temp. (F): ~~85~~ 83.2	Final Outdoor Temp. (F): 83.5
Initial Outdoor Bar. Pres. (in-Hg): 29.91	Final Outdoor Bar. Pres. (in-Hg) 29.98
~~Initial Indoor Temp. (F):~~	~~Final Indoor Temp. (F):~~
~~Initial Indoor Bar. Pres. (in-Hg):~~	~~Final Indoor Bar. Pres. (in-Hg):~~
Initial Indoor [TVOC] (ppb): 0	Final Indoor [TVOC] (ppb): 0

Sample Record:

Sample Type (Circle One) Indoor Air (Ambient Air)

Sample ID: B6-AA-3	Duplicate Sample ID:
Sample Location: Concrete pad, B6 Exp.	Initial Gauge Pressure (in-Hg)*: ~30
Canister Intake Height: 36"	Initial FC Pressure (in-Hg): ~30+
Start Date/Time: 6/6/15: 18:07	Final FC Pressure (in-Hg): -8.0
Stop Date/Time: 6/7/15: 17:49	Final Gauge Pressure (in-Hg): -7.0
Sample Duration: 23.70 hrs	Sample Flow Rate (cc/min):
Initial [TVOC] in Sample Train (ppb): 0	Final [TVOC] in Sample Train (ppb): 0

Comments / Observations:

6/7/15 13:11 FC pressure -12.5 inHg

Weather station report from BMS Humacao: No rain event occured during sampling period

* Initial guage pressure must be between 24 and 31 in-Hg.

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6 VI
Location: Humacao, PR	**Sampled By:** TT
Sample Date: 3/2/15	**Weather Conditions:** Fair, 75°

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: 36415
Sample Pump Model/Type:	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4 PTFE lined	Flow Controller Serial No.: 31363

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 163 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%): ~~35~~ 0	
Ambient [TVOC] (ppb): 410 ppb	Initial [TVOC] in Sample Train (ppb):	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) ~~0 ppm~~ 38%	[He] in Sample Train (%): 0	~~Pass~~/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 681 ppb

Sample Record

Soil Vapor Sample Interval: 8-14"

Start Date / Time: 3/2/15: 1627	Initial Pressure (in-Hg): 30"
Stop Date / Time: 3/2/15: 1635	Final Pressure (in-Hg): 5"
Sample Duration: 8 min	Sample Flow Rate (cc/min):

Sample ID: BG-155

Duplicate Sample ID:

Other Pertinent Sample Information:

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6 VI
Location: Humacao, PR	**Sampled By:** TT
Sample Date: 3/2/15	**Weather Conditions:** Fair, 75°

Sample Equipment:

TVOC Meter Model/Type: ppbRAE	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: 33398
Sample Pump Model/Type:	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" PTFE lined	Flow Controller Serial No.: 33398

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 163 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%): ~~38%~~ 0%	
Ambient [TVOC] (ppb): 670 ppb	Initial [TVOC] in Sample Train (ppb): 570 ppb	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) ~~0 ppm~~ 38%	[He] in Sample Train (%): 0%	~~Pass~~/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm):		

Sample Record

Soil Vapor Sample Interval: 8-14"	
Start Date / Time: 3/2/15 : 1501	Initial Pressure (in-Hg): 30"
Stop Date / Time: 3/2/15 : 1506	Final Pressure (in-Hg): 4"
Sample Duration: 7 min	Sample Flow Rate (cc/min):
Sample ID: B6-255	
Duplicate Sample ID: B6-255 Dup	
Other Pertinent Sample Information:	

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No: BMS	**Project Name:** Bldg 6 VI
Location: Humacao, PR	**Sampled By:** MT
Sample Date: 3/2/15	**Weather Conditions:** Fair, 75°

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 l
Helium Detector Model/Type:	Canister Serial No.: 12379
Sample Pump Model/Type:	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size:	Flow Controller Serial No.: 12379

Slab Description:

Thickness of slab (in): 8"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 163 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%): 0	
Ambient [TVOC] (ppb): 620 ~~510~~ ppb	Initial [TVOC] in Sample Train (ppb): 570 ppb	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 38%	[He] in Sample Train (%): 0	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm):		

Sample Record

Soil Vapor Sample Interval: 8-14"	
Start Date / Time: 3/2/15: 1501	Initial Pressure (in-Hg): 30"
Stop Date / Time: 3/2/15: 1508	Final Pressure (in-Hg): 6"
Sample Duration: 7 min	Sample Flow Rate (cc/min):
Sample ID: B6-25S Dup	
Duplicate Sample ID: B6-25S	

Other Pertinent Sample Information:
duplicate of B6-25S

Comments / Observations:

B6-355

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** NT
Sample Date: 2/4/15	**Weather Conditions:** Fair, 77°F

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 l
Helium Detector Model/Type: Dielectric	Canister Serial No.: 37729
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" OD	Flow Controller Serial No.: 37729

Slab Description:

Thickness of slab (in): 7"

Slab Description (materials/condition):
Reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 186 ml/min

Ambient [He] (%:) 0%	Initial [He/H] in Sample Train (%):	
Ambient [TVOC] (ppb): 0%	Initial [TVOC] in Sample Train (ppb):	

[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%

[He] in Enclosure (%) 33.79%	[He] in Sample Train (%): 1.1%	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 993 ppb / 0 ppb after sampling

Sample Record

Soil Vapor Sample Interval: 7-13"	
Start Date / Time: 2/4/15, 1630	Initial Pressure (in-Hg): 30+
Stop Date / Time: 2/4/15, 1637	Final Pressure (in-Hg): 5"
Sample Duration: 7 min	Sample Flow Rate (cc/min):
Sample ID: B6-355	
Duplicate Sample ID: B6-355D	

Other Pertinent Sample Information:

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

B6-355D

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** TT
Sample Date: 2/4/15	**Weather Conditions:** Fair, 77°C

Sample Equipment:

TVOC Meter Model/Type: ppb RAE	Canister Size: 1 L
Helium Detector Model/Type: Dielectric	Canister Serial No.: 31754
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 1/4" OD	Flow Controller Serial No.: 31754

Slab Description:

Thickness of slab (in): 7"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 186 ml/min

Ambient [He] (%:)	Initial [He/H] in Sample Train (%):	
Ambient [TVOC] (ppb):	Initial [TVOC] in Sample Train (ppb):	

[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%

[He] in Enclosure (%) 33.7 %	[He] in Sample Train (%): 1.1 %	(Pass)/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm): 943 ppb / 0 ppb after sampling

Sample Record

Soil Vapor Sample Interval: 7-13"

Start Date / Time: 2/4/15, 1630	Initial Pressure (in-Hg): 30+
Stop Date / Time: 2/4/15, 1637	Final Pressure (in-Hg): 5"
Sample Duration: 7 min	Sample Flow Rate (cc/min):

Sample ID: B6-355D

Duplicate Sample ID: B6-355

Other Pertinent Sample Information:
duplicate of B6-355

Comments / Observations:

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	**Project Name:** Bldg 6 VI
Location: BMS Humacao	**Sampled By:** N
Sample Date: 2/6/15	**Weather Conditions:** 81°, Fair

Sample Equipment:

TVOC Meter Model/Type: ppb Rae	Canister Size: 1 L
Helium Detector Model/Type: Dielectric	Canister Serial No.: 11427
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size: 3/8"	Flow Controller Serial No.: 11427

Slab Description:

Thickness of slab (in): 20"

Slab Description (materials/condition):
reinforced concrete

Helium Leak Check:

Sample Flow Rate (cc/min): 188 ml/min

Ambient [He] (%:) 0 ppm	Initial [He/H] in Sample Train (%):	
Ambient [TVOC] (ppb): 450 ppb	Initial [TVOC] in Sample Train (ppb):	

[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%

[He] in Enclosure (%) 36%	[He] in Sample Train (%): 0 ppm	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail

[TVOC] in Sample Train (ppm):

Sample Record

Soil Vapor Sample Interval: 20-24"

Start Date / Time: 2/6/15, 1414	Initial Pressure (in-Hg): 30+"
Stop Date / Time: 2/6/15, 1422	Final Pressure (in-Hg): 5"
Sample Duration: 8 min	Sample Flow Rate (cc/min):
Sample ID: B6-455	
Duplicate Sample ID:	

Other Pertinent Sample Information:
67.1°F Indoor air T
60.1% Rel. Hum. Indoors

Comments / Observations:
~~6465264393~~
1478 ppb in Tedlar bag after sampling

B6-5SS

SUB-SLAB SOIL VAPOR MONITORING FORM

Anderson Mulholland & Associates
ENVIRONMENTAL CONSULTANTS

Project No:	Project Name: Bldg 6 VI
Location: BMS Humacao	Sampled By: N
Sample Date: 2/4/15	Weather Conditions: Fair, 77°F

Sample Equipment:

TVOC Meter Model/Type: ppbRAE	Canister Size: 1 l
Helium Detector Model/Type: Dielectric	Canister Serial No.: 37348
Sample Pump Model/Type: SKC	Flow Controller Model/Type: 5 min
Sample Tubing Type/Size:	Flow Controller Serial No.: 37348

Slab Description:

Thickness of slab (in): 6"

Slab Description (materials/condition):
good condition, painted

Helium Leak Check:

Sample Flow Rate (cc/min): 186 ml/min		
Ambient [He] (%:)	Initial [He/H] in Sample Train (%):	
Ambient [TVOC] (ppb): 0 ppb	Initial [TVOC] in Sample Train (ppb): 14 ppm	
[He] in Enclosure must be > 30% and [He] in Sample Train must be < 3%		
[He] in Enclosure (%) 65%	[He] in Sample Train (%): 0.95%	Pass/Fail (Pass circled)
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[He] in Enclosure (%)	[He] in Sample Train (%):	Pass/Fail
[TVOC] in Sample Train (ppm): 2250 ppb		

Sample Record

Soil Vapor Sample Interval: 6-12"	
Start Date / Time: 2/4/15, 1341	Initial Pressure (in-Hg): 30"
Stop Date / Time: 2/4/15, 1549	Final Pressure (in-Hg): 5"
Sample Duration: 8 min	Sample Flow Rate (cc/min):
Sample ID: B6-5SS	
Duplicate Sample ID:	

Other Pertinent Sample Information:
Indoor T = 86°F
Rel Hum = 67%

Comments / Observations: